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NOTICE OF ALLOWANCE AND FEE(S) DUE

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04 17:2003

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402 DANG, PHUC T

ART UNIT CLASS-SUBCLASS

2818
DATE MAILED: 04/17/2003

APPLICATION NO.

FILING DATE

FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

CONFIRMATION NO

257-315009

09/943.324

08/30/2001

Kie Y. Ahn

303.678US3

9583

TITLE OF INVENTION: STRUCTURE AND METHOD FOR DUAL GATE OXIDE THICKNESSES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	07/17/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

	Application No.	Applicant(s)	
Al d' CAU LIV.	09/943,324	AUNIET AI	
Notice of Allowability	Examiner	AHN ET AL. Art Unit	
	PHUC T DANG	2818	
The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3: 1. This communication is responsive to amendment filed or 2. The allowed claim(s) is/are 33-40 and 55-86 (renumbere 3. The drawings filed on 30 August 2001 are accepted by the drawings filed on 30 August 2001 are accepted by the Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is single and MPEP 1308. In February 19, 2003. In as in new claims 1-40). In the Examiner. Inder 35 U.S.C. § 119(a)-(d) or we been received.	this application If not included inication will be mailed in due cou ubject to withdrawal from issue a	urea THIC
3. Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority (a) The translation of the foreign language provisional 6. Acknowledgment is made of a claim for domestic priority	ocuments have been received under 35 U.S.C. § 119(e) (to a application has been received	in this national stage application provisional application).	ı from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the control of the contro	f this application. THIS THRE mitted. Note the attached EXA	EE-MONTH PERIOD IS NOT EX MINER'S AMENDMENT OF NOT	TENDABLE.
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing (c) including changes required by the attached Examine	correction filed, which	n has been approved by the Exar	
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape			he back)
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR			the:
Attachment(s)			
 I ⋈ Notice of References Cited (PTO-892) B ⋈ Notice of Draftperson's Patent Drawing Review (PTO-948) D ⋈ Information Disclosure Statements (PTO-1449), Paper No. 9 I Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview 2. 6⊡ Examiner'	Informal Patent Application (PTC Summary (PTO-413), Paper No. 's Amendment/Comment 's Statement of Reasons for Allov	<u>10</u> .
	PHUC T. DA EXAMINER	NG PD Jangy	.huv

DETAILED ACTION

Response to Pre-Amendment

This Office Action is in response to Pre-Amendment filed on February 19, 2003.
 Claims 33, 55, 62, 67, 73, 78, 82 and 86 have been amended.
 Claims 33-40 and 55-86 are pending in the present application at the time for examination.
 Claims 33-40 and 55-86 are renumbered as in new claims 1-40.

Examiner's Statement of Reasons for Allowance

- 2. Claims 33-40 and 55-86 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggests a method and an apparatus of a logic device and a memory device structure on a single substrate comprising a second transistor, wherein the second transistor includes a second dielectric layer of a second thickness different from the first thickness, due to a top layer which exhibits a high resistance to oxidation at high temperatures or a high resistance to boron penetration at high temperatures as set forth in the claimed combination, wherein the top layer located on the first dielectric layer of a first thickness.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance".

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- Any inquiry concerning this communication or earlier communications from the examiner 5. should be directed to Phuc T. Dang whose telephone number is 703-305-1080. The examiner can normally be reached on 8:00 am-5:00 pm.
- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841 for regular communications and 703-308-5841 for After Final communications.
- 7. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Phuc T. Dang

PHUCT DANG Langement EXAMINER

Examiner

Art Unit 2818

April 8, 2003